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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,622	11/13/2003	Duncan J. Maitland	IL-10492B	2445
7590 11/16/2006			EXAMINER	
Eddie E. Scott			TRUONG, KEVIN THAO	
Lawrence Liver	more National Laboratory			
P.O. Box 808 - L-703			ART UNIT	PAPER NUMBER
Livermore, CA 94551			3734	· · · · · · · · · · · · · · · · · · ·

DATE MAILED: 11/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		App	lication No.	Applicant	(s)			
Office Action Summary		10/7	13,622	MAITLAND	MAITLAND ET AL.			
		Exa	niner	Art Unit				
			n T. Truong	3734				
Period fo	The MAILING DATE of this commun or Reply	ication appears o	on the cover shee	t with the corresponde	nce address			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE M pasions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this community period for reply is specified above, the maximum state to reply within the set or extended period for reply period for reply the provided by the Office later than three months are digital patent term adjustment. See 37 CFR 1.704(b).	AILING DATE C of 37 CFR 1.136(a). In unication. atutory period will apply will, by statute, cause t	F THIS COMMU no event, however, ma and will expire SIX (6) N he application to becom	NICATION. y a reply be timely filed MONTHS from the mailing date e ABANDONED (35 U.S.C. §	e of this communication.			
Status		•						
1)	Responsive to communication(s) file	d on .						
•	This action is FINAL . 2b)⊠ This action is non-final.							
/—	Since this application is in condition	<i>,</i> —		natters, prosecution a	s to the merits is			
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	·						
4)⊠	Claim(s) 1-4 is/are pending in the ap	plication.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
·	6) Claim(s) 1-4 is/are rejected.							
•	Claim(s) is/are objected to.							
·	8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
.0/[]			•		85(a).			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
•	nder 35 U.S.C. § 119	·						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
∽ /1	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(e)							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notic	e of Draftsperson's Patent Drawing Review (F	TO-948)	Paper	No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application					tion			
Paper No(s)/Mail Date <u>11/3/03</u> . 6) Other:								

Application/Control Number: 10/713,622

Art Unit: 3734

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Kurz et al. (U.S. 6,296,622).

Note in figures 23-28, the method of manufacturing an actuator (130) for acting upon a material in a vessel comprising the steps of processing a shape memory polymer (136,137) that will expand into a umbrella configuration upon being activated which includes heating above its melting temperature during (col. 15, line 46 to col. 17, line 19); and furthermore, wherein the SMP (136,137) operatively connecting to an optical fiber (32,132).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kurz (U.S. 6,102,932) discloses a shape memory polymer material coupled to an optical fiber.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin T. Truong whose telephone number is 571-272-

Art Unit: 3734

4705. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 6:00 PM..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Hayes can be reached on 571-272-4959. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kevin T. Truong
Primary Examiner
Art Unit 3734